

and video data [or one of the same (audio and/or video data) are] being multiplexed in a predetermined order;

a demultiplexing means for demultiplexing each one of said [audio and/or video data] plurality of channels from the received [said] input data stream;

a plurality of recording means for recording [each of] the demultiplexed each one [said plurality of audio and/or video data] so that random access is [possible;] possible, wherein one of said plurality of recording means is configured to record exactly one of said plurality of channels.

a reproducing means for reproducing [said plurality of audio and/or video data respectively recorded] the recorded each one [in] from said plurality of recording means; and

a multiplexing means for multiplexing the reproduced [said plurality of audio and/or video data] each one in said predetermined order and generating [said] an output data stream.

2. (Amended) An audio and/or video data recording and reproducing apparatus according to claim 1, [wherein] wherein:

each of said plurality of recording means adopts a mirror configuration having a plurality of recording apparatuses for recording the same audio and/or video data.

3. (Amended) An audio and/or video data recording and reproducing apparatus according to claim 1, [wherein] wherein:

each of said plurality of recording means adopts an array configuration in which a plurality of recording apparatuses are connected in parallel.

4. (Amended) An audio and/or video data recording and reproducing apparatus according to claim 1, [wherein:] further comprising:

[control data is further multiplexed on said data stream;
said demultiplexing means further demultiplexes said control data multiplexed on said data stream; and

provision is further made of] a recording and reproduction control means for controlling a recording operation of said plurality of recording means and a reproduction operation of said reproducing means based on [the demultiplexed said] control [data.] data,

wherein said input data stream includes multiplexed control data, and

wherein said demultiplexing means further demultiplexes said control data from the received input data stream.

5. (Amended) An audio and/or video data recording and reproducing apparatus according to claim 4, [wherein] wherein:

at least one of said plurality of recording means [and said plurality of reproducing means perform] further performs [a] said recording operation [and reproduction operation] in synchronization with a synchronization signal of [said] the received input data [stream.] stream; and

said reproducing means further performs said reproduction operation in synchronization with said synchronization signal.

6. (Amended) An audio and/or video data recording and reproducing apparatus according to claim 5, [wherein] further comprising:

[said] a plurality of audio and/or video data recording and reproducing apparatuses [are] being connected in parallel, [and]

X

wherein said input data stream and said output data stream [is] are input and output among [these] said plurality of audio and/or video data recording and reproducing apparatuses.

7. (Amended) An audio and/or video data recording and reproduction [method] method, comprising the steps of:

a) receiving [a] an input data stream [in which] having a plurality of channels of at least one of audio data and video data [or one of the same (audio and/or video data), are] being multiplexed in a predetermined order;

demultiplexing each one of said [audio and/or video data] plurality of channels from the received [said] input data stream;

recording [each of] the demultiplexed each one [said plurality of audio and/or video data] so that random access is [possible;] possible, wherein one of said plurality of channels is recorded on exactly one of a plurality of recording means for recording;

reproducing [said plurality of audio and/or video data respectively recorded in said plurality of recording means;] the recorded each one from said plurality of recording means; and

multiplexing the reproduced [said plurality of audio and/or video data] each one in said predetermined order and generating [said] an output data stream.

8. (Amended) An audio and/or video data recording and reproduction method according to claim 7, [wherein] wherein:

sub c2) [each of] the demultiplexed [said plurality of audio and/or video data] each one is [recorded] duplicated on [a plurality of] more than one recording [media] medium to perform backup [for them.] of the demultiplexed each one.

a!

9. (Amended) An audio and/or video data recording and reproduction method according to claim 8, [wherein] wherein:
[each of] the demultiplexed [said plurality of audio and/or video data] each one of said plurality of channels is recorded [on a plurality of recording media] in parallel [for every part.] with the rest of said plurality of channels on a plurality of recording media.

Please add new claims 10-18 as follows:

a²

--10. The audio and/or video data recording and reproducing apparatus of claim 1, wherein each one of said plurality of recording means is configured to record a corresponding exactly one of said plurality of channels.

11. An audio and/or video data recording and reproducing apparatus, comprising:

an input circuit configured to receive an input data stream having a plurality of channels of at least one of audio data and video data being multiplexed in a predetermined order;

a data controller circuit configured to demultiplex each one of said plurality of channels from the received input data stream;

a plurality of disk drives configured to record the demultiplexed each one so that random access is possible, wherein one of said plurality of disk drives is configured to record exactly one of said plurality of channels, and wherein at least one of said plurality of disk drives is further configured to reproduce the recorded each one from said plurality of disk drives; and

a multiplexer circuit configured to multiplex the reproduced each one in said predetermined order and to generate an output data stream.

X

SUB
C3 }

a²

12. An audio and/or video data recording and reproducing apparatus according to claim 11, wherein:

each of said plurality of disk drives adopts a mirror configuration having a plurality of recording apparatuses for recording the same audio and/or video data.

13. An audio and/or video data recording and reproducing apparatus according to claim 11, wherein:

each of said plurality of disk drives adopts an array configuration in which a plurality of recording apparatuses are connected in parallel.

14. An audio and/or video data recording and reproducing apparatus according to claim 11, further comprising:

a control circuit configured to control a recording operation of said plurality of disk drives and a reproduction operation of said at least one disk drive based on control data,

wherein said input data stream includes multiplexed control data, and

wherein said data controller circuit is further configured to demultiplex said control data from the received input data stream.

15. An audio and/or video data recording and reproducing apparatus according to claim 14, wherein:

one or more of said plurality of disk drives are further configured to perform said recording operation in synchronization with a synchronization signal of the received input data stream; and

said at least one disk drive is further configured to perform said reproduction operation in synchronization with said synchronization signal.